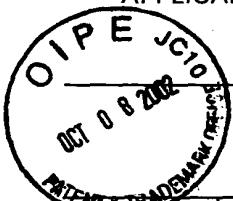


FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906C	SERIAL NO. 09/709,905
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan et al.	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
NONE							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
NONE							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JRB</i>	A	Koehl <i>et al.</i> , "A brighter future for protein structure prediction", <i>Nature Structure Biology</i> , 6(2):108-111, 1999
<i>JRB</i>	B	Sternberg <i>et al.</i> , "Progress in protein structure prediction: assessment of CASP3", <i>Current Opinion in Structural Biology</i> , 9:368-373, 1999

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EXAMINER *JRB* | DATE CONSIDERED *11/27/02*

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FOREIGN PATENT DOCUMENTS

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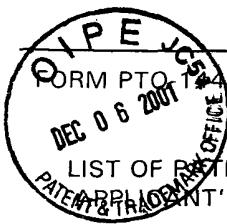
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FORM PTO 1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>JBB</i>	A	5	3	3	1	5	7	3	07/19/94	Balaji et al.				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLAS S	Translation Yes No
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<i>JBB</i>	C	9	5	1	4	0	2	8	05/26/95	PCT				
<i>JBB</i>	D	9	8	0	6	0	4	8	02/12/98	PCT				
<i>JBB</i>	E	9	8	1	3	7	8	1	04/02/98	PCT				
<i>JBB</i>	F	9	8	5	4	6	6	5	12/03/98	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JBB</i>	G	Abdel-Meguid, S.S. et al. "An orally bioavailable HIV-1 protease inhibitor containing an imidazole-derived peptide bond replacement: crystallographic and pharmacokinetic analysis," <i>Biochemistry</i> 33(39):11671-11677 (1994)
	H	Blaney, R. "Molecular modelling in the pharmaceutical industry. <i>Chemistry and Industry. Chemistry and Industry Review</i> 23(4):791-4 (1990). <i>not considered no copy provided</i>
	I	Bohm, G. "New approaches in molecular structure prediction". <i>Biophysical Chemistry</i> 59:1-32 (1996) <i>not considered no copy provided</i>
<i>JBB</i>	J	Thompson, S.K. et al. "Rational design, synthesis, and crystallographic analysis of a hydroxyethylene-based HIV-1 protease inhibitor containing a heterocyclic P1'-P2' amide bond isoster," <i>Journal of Medicinal Chemistry</i> 37(19):3100-3107 (1994).

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JBS - Brusca

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	TECH CENTER 1600/2900 RECEIVED AUG 14 2002
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
* <i>JB</i>	AA	5	3	1	7	0	9	7	05/31/94	Miller <i>et al.</i>	536	24.31	10/07/91
* <i>JB</i>	AB	5	4	9	5	4	2	3	02/27/96	DeLisi <i>et al.</i>	364	496	10/25/93
* <i>JB</i>	AC	5	5	9	3	9	5	9	01/14/97	Miller <i>et al.</i>	514	8	10/14/93
* <i>JB</i>	AD	5	6	2	4	8	1	7	04/29/97	Miller <i>et al.</i>	435	69.1	04/28/94
* <i>JB</i>	AE	5	6	9	9	2	6	8	12/16/97	Schmidt	364	496	06/07/95
* <i>JB</i>	AF	5	9	6	8	7	3	7	10/19/99	Ali-Osman <i>et al.</i>	435	6	11/12/96
* <i>JB</i>	AG	5	9	7	8	7	4	0	11/02/99	Armistead <i>et al.</i>	702	19	08/09/95
* <i>JB</i>	AH	6	1	2	8	5	8	2	10/03/00	Wilson <i>et al.</i>	702	27	04/30/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	No
None								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

* <i>JB</i>	AI	Baker <i>et al.</i> , "Protein Structure Prediction and Structural Genomics", <i>Science</i> , 294:93-96 (2001)
* <i>JB</i>	AJ	Hess <i>et al.</i> , "Impact of Pharmacogenomics on the Clinical Laboratory", <i>Mol. Diagn.</i> , 4(4):289-98 (1999)
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EXAMINER <i>JB. Brusca</i>	DATE CONSIDERED <i>11/27/02</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL APPLICATIONS

<p>FORM PTO-1449 (Modified)</p> <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p><i>TRADEMARK OFFICE</i></p>	ATTY. DOCKET NO. 24737-1906C	SERIAL NO. 09/709,905
	APPLICANT Ramnarayan et al.	
	FILING DATE November 10, 2000	GROUP 1631
	TECH CENTER 1600/2900	MAR 25 2002

* References are not included.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
*		AA	5	7	1	2	1	4	5	01/27/98	Houghton et al.	435	219	09/06/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*	AB	Ajay et al., Computational Methods to Predict Binding Free Energy in Ligand-Receptor Complexes, <u>Journal of Medicinal Chemistry</u> , 38(26):4953-4967 (1995). <i>Optical</i>
*	AC	Balaji et al., Conformational studies on model peptides with 1-aminocyclopropane 1-carboxylic acid residues, <u>Pept. Res.</u> , 7(2):60-71 (1994).
*	AD	Balaji et al., Conformational studies on model peptides with 1-aminocyclobutane 1-carboxylic acid residues, <u>Pept. Res.</u> , 8(3):178-86 (1995).
*	AE	Balasubramaniam et al., [D-TRP ³²]Neuropeptide Y: A Competitive Antagonist of NPY in Rat Hypothalamus, <u>J. Med. Chem.</u> , 37(6):811-815 (1994).
*	AF	Böhm, Prediction of binding constants of protein ligands: A fast method for the prioritization of hits obtained from de novo design or 3D database search programs, <u>Journal of Computer-Aided Molecular Design</u> , 12:309-323 (1998).
*	AG	Checa et al., Assessment of Solvation Effects on Calculated Binding Affinity Differences: Trypsin Inhibition by Flavonoids as a Model System for Congeneric Series, <u>J. Med. Chem.</u> , 40:4136-4145 (1997).
*	AH	Daniels, Blood group polymorphisms: molecular approach and biological significance, <u>Transfus. Clin. Biol.</u> , 4:383-390 (1997) ✓

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J. Bresca

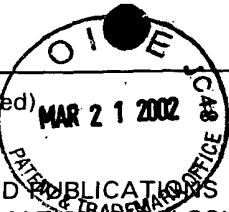
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	FILING DATE November 10, 2000	GROUP 1631

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MAR 25 2002

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*	AI	Das et al., Crystal Structures of 8-CI and 9-CI Complexed with Wild-type HIV-1 RT and 8-CI TIBO Complexed with the Tyr81Cys HIV-1 RT Drug-resistant Mutant, <u>J. Mol. Biol.</u> 264:1085-1100 (1996). <i>not considered</i>
*	AJ	Eldridge et al., Empirical scoring functions: I. The development of a fast empirical scoring function to estimate the binding affinity of ligands in receptor complexes, <u>Journal of Computer-Aided Molecular Design</u> . 11:425-445 (1997). <i>not considered</i>
*	AK	Fox, S. Pharmacogenomics Thrives in Europe. <u>Genetic Engineering News</u> , June 15, 1999. <i>not considered</i>
*	AL	Leheny et al. Symposium on Resistance Highlights New Trends in AIDS Treatments: Implications for BioChem Pharma and Others, Hambrecht & Quist LLC Institutional Research, pp. 1-7 (1997). <i>not considered</i> <i>no copy provided</i>
*	AM	Manavalan et al., Location of Potential Binding Sites on Deoxy Hemoglobin for the Design of Antigelling Agents, <u>J. Mol. Biol.</u> 223:791-800 (1992). <i>not considered</i>
*	AN	Munson et al., Identification of an extracytoplasmic region of H+, K(+)- ATPase labeled by a K(+) -competitive photoaffinity inhibitor, <u>J. Biol. Chem.</u> 266(28):18976-88 (1991). <i>not considered</i>
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*	AP	Press Release, Structural Bioinformatics Inc. and Cyberchemics, Inc. Collaborate to Speed the Generation of Hepatitis C Viral Protease Inhibitors, <u>SBI News</u> . Located at http://strubix.com/press/press5.html , pp. 1-2 (1997). <i>not considered</i>
*	AQ	Press Release, Structural Bioinformatics Inc. Selects IBM RS/6000 SP to Speed Drug Design, <u>SBI News</u> . Located at http://strubix.com/press/press11.html , pp. 1-2 (1997). <i>not considered</i>
*	AR	Press Release, SBI Protein Models & Ligand Binding for Novel Viral Enzyme Validated, <u>SBI News</u> . Located at http://strubix.com/press/press32.html , pp. 1-2 (1999). <i>not considered</i>
*	AS	Press Release, Structural Bioinformatics Inc. Generates Antiviral Lead Compound from Gene Sequence to Achieve Milestone in Biochem Pharma Collaboration, <u>SBI News</u> . Located at http://strubix.com/press/press20.html , pp. 1-2 (1998). <i>not considered</i>
*	AT	Press Release, SBI's Protein Structure Directed Combinatorial Chemistry Cuts Time and Cost 100X for Synthesis of New Anti-Inflammatory Drug Lead Molecules (TNF Receptor Antagonists), <u>SBI News</u> . Located at http://strubix.com/press/press19.html , pp. 1-2 (1998). <i>not considered</i>

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*J.P. Bruce*DATE CONSIDERED *11/27/02*

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		FILING DATE November 10, 2000	

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*	AU	Press Release, Structural Bioinformatics Inc. Generates Non-Peptide Lead Molecules Active Against the EPO Receptor from Gene Sequence Data, <u>SBI News</u> . Located at http://strubix.com/press/press22.html , pp. 1-2 (1998).
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*	AW	Radack <i>et al.</i> , Intercorrelations and sources of variability in three mutagenicity assays: a population-based study, <u>Mutation Research</u> , 350 (1996); pp. 295-306.
*	AX	Radmer <i>et al.</i> , The application of three approximate free energy calculations methods to structure based ligand design: Trypsin and its complex with inhibitors, <u>Journal of Computer-Aided Molecular Design</u> , 12:215-227 (1998).
*	AY	Ramnarayan <i>et al.</i> , Antibody humanization predicted by computer graphic analysis, <u>Am. Biotechnol. Lab.</u> , 13(9):26,28 (1995).
*	AZ	Ramnarayan <i>et al.</i> , Conformational studies on model dipeptides of Gly, L-Ala and their C ^a -substituted analogs, <u>Int. J. Pept. Protein Res.</u> , 45(4):366-76 (1995).
*	BA	Ramnarayan <i>et al.</i> , Characterization of a Linear Pentapeptide Containing Two Consecutive β -Turns, <u>Pept. Res.</u> , 7(5):270-8 (1994).
*	BB	Regalado, Inventing the pharmacogenomics business, <u>Am. J. Health-Syst. Pharm.</u> , 56:40-50 (1999).
*	BC	Rao <i>et al.</i> , Conformational Studies on β -Amino Acid-Containing Peptides. I., <u>Pept. Res.</u> , 5(6):343-50 (1992).
*	BD	Shafer <i>et al.</i> , Multiple Concurrent Reverse Transcriptase and Protease Mutations and Multidrug Resistance of HIV-1 Isolates from Heavily Treated Patients, <u>Annals of Internal Medicine</u> , 128(11):906-11 (1998).
*	BE	Skaletsky <i>et al.</i> , Accessing three-dimensional chemical information in antibody molecules, <u>Am. Biotechnol. Lab.</u> , 11(5):10-3 (1993). ✓
*	BF	Shenderovich <i>et al.</i> , "Structural Pharmacogenomic Approach-to-the-Evaluation of Drug Resistant Mutations and HIV-1 Protease", <u>Journal of Clinical Ligand Assay</u> , 24(2):140-144 (2001) <i>not considered</i> <i>copy provided</i>

EXAMINER J.S. Brueck | DATE CONSIDERED 11/27/02

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		
	APPLICANT Ramnarayan et al.	
	FILING DATE November 10, 2000	GROUP 1631

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*	BG	Smith et al., Molecular modeling of HIV-1 reverse transcriptase drug-resistant mutant strains: implications for the mechanism of polymerase action, <u>Protein Engineering</u> , 10(12):1379-83 (1997). <i>copy provided</i>
*	BH	Spear, Viewpoint - Pharmacogenomics: Today, Tomorrow, and Beyond, <u>Drug Benefit Trends</u> , 11(2):53-54 (1999).
*	BI	Takamatsu et al., A New Method for Predicting Binding Free Energy Between Receptor and Ligand, <u>Proteins: Structure, Function, and Genetics</u> , 33:62-73 (1998).
*	BJ	Tantillo et al. Locations of Anti-AIDS Drug Binding Sites and Resistance Mutations in the Three-dimensional Structure of HIV-1 Reverse Transcriptase, <u>J. Mol. Biol.</u> , 243:369-387 (1994).
*	BK	Vajda et al. Empirical potentials and functions for protein folding and binding, <u>Theory and Simulation</u> , 7:222-228 (1997). <i>copy provided</i>
*	BL	Wang and Kollman, "Computational study of protein specificity: The molecular basis of HIV-1 protease drug resistance", <u>PNAS</u> , 98(26):14937-14942 (2001). <i>not considered no copy provided</i>
*	BM	Weng et al., Prediction of protein complexes using empirical free energy functions, <u>Protein Science</u> , 5:614-626 (1996). <i>not considered no copy provided</i>
*	BN	Zhu et al., Identification of two new hydrophobic residues on basic fibroblast growth factor important for fibroblast growth factor receptor binding, <u>Protein Engineering</u> , 11(10):937-40 (1998). <i>copy provided</i>
*	BO	Zhu et al., Analysis of high-affinity binding determinants in the receptor binding epitope of basic fibroblast growth factor, <u>Protein Eng.</u> , 10(4):417-21 (1997).
*	BP	Zhu et al., Glu-96 of basic fibroblast growth factor is essential for high affinity receptor binding. Identification by structure-based site-directed mutagenesis, <u>J. Biol. Chem.</u> , 270(37):21869-74 (1995). <i>copy provided</i>

EXAMINER

J.R. Brusca

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24727-1906C

SERIAL NO.
09/709,905

LIST OF PATENTS AND PUBLICATIONS FOR
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Ramnarayan *et al.*

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	No
<i>JBS</i>		0 1 3 5 3 1 6	05/17/01	PCT				

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J.S. Bures

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							FILING DATE November 10, 2000	GROUP 2857 1631



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
* JBS	4	2	0	8	4	7	9	06/17/80	Zuk et al.	435	7	07/14/77
* JBS	4	2	2	0	4	5	0	09/02/80	Maggio	23	230	04/05/78
* JBS	4	2	3	3	4	0	1	11/11/80	Yoshida et al.	435	7	07/14/77
* JBS	4	2	3	3	4	0	2	11/11/80	Maggio et al.	435	7	04/05/78
* JBS	4	2	7	7	4	3	7	07/01/81	Maggio	422	61	12/10/79
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* JBS	4	3	9	7	9	5	6	08/09/83	Maggio	436	34	12/10/81
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* JBS	4	7	8	9	6	3	1	12/06/88	Maggio	435	7	02/17/84
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* JBS	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
* JBS	5	3	3	1	5	7	3	07/19/94	Balaji et al.	364	500	12/14/90
* JBS	5	5	7	1	8	2	1	11/05/96	Chan et al.	514	312	05/20/94
* JBS	5	5	7	9	2	5	0	11/26/96	Balaji et al.	364	496	04/24/95
* JBS	5	6	1	2	8	9	5	03/18/97	Balaji et al.	364	496	04/21/95
* JBS	5	7	1	2	1	4	5	01/27/98	Houghton et al.	435	219	09/06/96
* JBS	5	8	0	8	9	6	9	09/15/98	Arnaud et al.	367	103	12/04/95
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* JBS	5	8	4	6	7	6	3	12/08/98	Lee et al.	435	69.1	05/13/94
* JBS	5	9	1	0	4	7	8	06/08/99	Hlavka et al.	514	9	09/20/96

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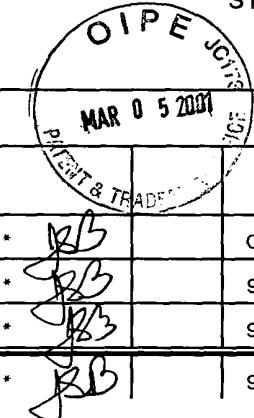
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		FILING DATE November 10, 2000	GROUP 2857/b3/



P	A	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
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*	JBB	9	7	2	7	3	1	9	07/31/97	PCT			
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 10, 2000	GROUP 2857/631

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

* <i>JB</i>	Vajda <i>et al.</i> Empirical potentials and functions for protein folding and binding, <u>Theory and Simulation</u> . 7:222-228 (1997).
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